## SIEMENS

## Data sheet

## 3VA5190-4EC41-0AA0

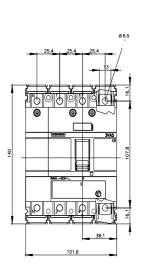


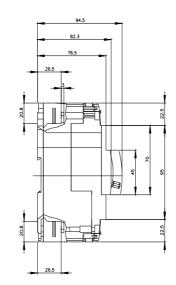
circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480V 4-pole, line protection TM230, FTAM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=5...10 x In N conductor unprotected without connection

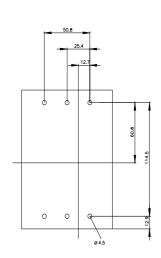
Model			
product brand name	SENTRON		
product designation	Molded-case circuit breaker		
product designation / according to UL file	SEAS		
design of the product	System protection		
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes		
design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type)	No		
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No		
design of the overcurrent release	TM230		
protection function of the overcurrent release	LI		
number of poles	4		
General technical data			
insulation voltage / rated value	800 V		
operating voltage / at DC / rated value	600 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	21.4 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7.13 W		
mechanical service life (operating cycles) / typical	20 000		
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000		
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000		
electrical endurance (operating cycles) / at 480 V	8 000		
electrical endurance (operating cycles) / at 600 V	4 000		
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No		
ground-fault monitoring version	without		
product function			
<ul> <li>communication function</li> </ul>	No		
<ul> <li>other measurement function</li> </ul>	No		
Net Weight	952 g		
Current			
marking / according to UL 489 / 100%-rated breaker	No		
operational current			
• at 40 °C	90 A		
• at 45 °C	88 A		
● at 50 °C	86 A		
• at 55 °C	84 A		
• at 60 °C	82 A		
• at 65 °C	80 A		

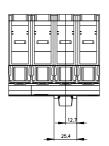
• at 70 °C	79 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 690 V	5 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
● at 415 V	75.6 kA
• at 690 V	7.5 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	65 kA
• at 480 V	25 kA
• at 600 Y/347 V	14 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	90 A
• maximum	90 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	450 A
• maximum	900 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
maximum     adjustable current response value current / of the current-	0 A
dependent overload release	90 90 A
design of the N-conductor protection	Without
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	5.51 in
height	140 mm
width [in]	4 in
width	101.6 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	Without connection
arrangement of electrical connectors / for main current circuit	Without connection Without
type of electrical connection / for main current circuit	Without
Auxiliary circuit	0
number of CO contacts / for auxiliary contacts Accessories	0
product extension / optional / motor drive	Yes
Environmental conditions	
protection class IP / on the front	IP40
	11 10

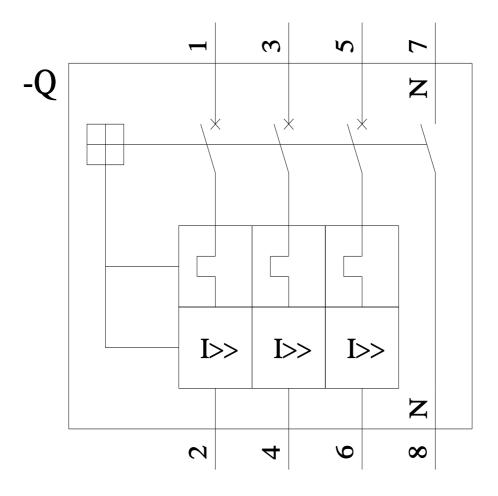
ambient temperature		-				
during operation / minimum		-25 °C				
<ul> <li>during operation / maximum</li> </ul>		70 °C				
<ul> <li>during storage / minimum</li> </ul>		-40 °C				
<ul> <li>during storage / maximum</li> </ul>		80 °C				
Certificates						
reference code / according to IEC 8	1346-2	Q				
General Product Approval						
Confir ccc	mation	(UL)	VDE	<u>Miscellaneous</u>		
General Product Approval	Declaration of	f Conformity	Test Certificates			
		CE EG-Konf.	<u>Special Test Certific-</u> ate	Type Test Certific- ates/Test Report		
Marine / Shipping	other					
ABS RJ	Confirmation ARS	on <u>Miscellaneou</u>	is <u>Miscellaneous</u>			
Further information						
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5190-4EC41-0AA0 Service&Support (Manuals, Certificates, Characteristics, EAOS,)						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-4EC41-0AA0</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)						
http://www.siemens.com/cax Tender specifications						

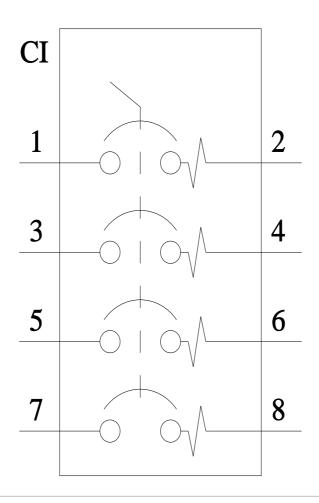












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